

Recombinant Human VEGF-121

Cat# HVG-VF1

Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: Human cells derived

Structure: Glycosylated homodimer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5EU/ug

Molecular Weight: 37kDa homodimer, 50kDa homotrimer

Formulation: Lyophilized from a 0.2µm filtered solution in PBS without carrier protein

Activity Assay

The activity was measured by its ability to stimulate the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability & Storage

Use a manual defrost freezer and avoid repeated

freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

Protein Description

Vascular endothelial growth factor (VEGF) is a potent growth and angiogenic cytokine. It is a member of the PDGF family that is characterized by the presence of eight conserved cysteine residues and a cystine knot structure. VEGF stimulates angiogenesis, vasculogenesis and endothelial cell growth, induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Human express alternately spliced isoforms, and VEGF-121 is the only form that lacks a basic heparin binding region and is freely diffusible. VEGF-121 induces the proliferation of lymphatic endothelial cells and the lymph angiogenesis may be promoted by up regulation of VEGF-121.

References

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